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## Patent Abstracts of Japan

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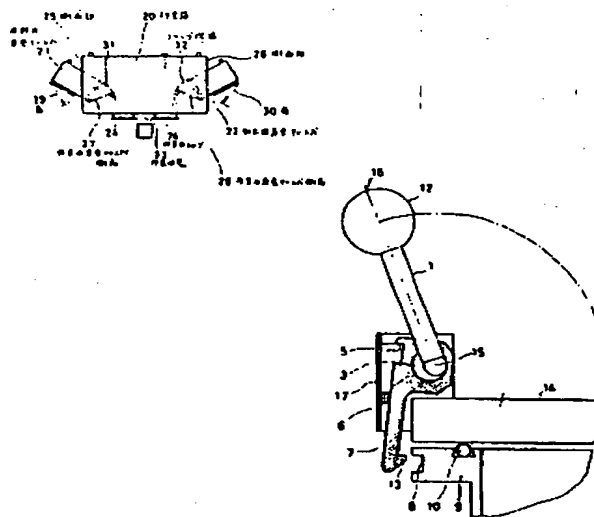
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TITLE : CLAMP MECHANISM OF DOOR OF  
VACUUM CHAMBER AND WORKING  
BOX WITH VACUUM CHAMBER



**ABSTRACT :** **PURPOSE:** To improve operability and sealing property by inclining the surface of a vacuum chamber side door for supply and take out working in a working box, to a working window side at a predetermined angle, and providing a clamp mechanism having a cylindrical opening/closing lever, arm and eccentric cam at respective door.

**CONSTITUTION:** The surfaces of working box side doors 27, 28 of a vacuum chamber 21 for supply and a vacuum chamber 22 for take-out are inclined to a working window 23 side at about 30 degree with respect to the inner walls of respect side portion 25, 26. A clamp mechanism having an opening/closing lever 1, arm 7 and an eccentric cam 3 for connecting them is provided at respective side door 27, 28. At first, the opening/closing lever 1 is rotated at 90 degree with respect to the surface 14 of the door and force is applied to the door at a right angle for closing the door. And, a rubber packing is pressed to the door to be deformed, the projection 13 of the arm 7 is reached to the position of the recess 8 of an edge frame 9 to be pressed to a wound spring 6 for being fitted to the recess 8. Next, the opening/closing lever 1 is leveled in parallel with the surface 14. Accordingly, the door is strongly pressed to the rubber packing 10 and its locking (closing) is achieved.

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